

**IN THE CLAIMS**

1 (Previously Presented). A method comprising:

receiving motion detection information from an infrared motion detector;

capturing a digital representation of a scene in an imaging device;

forming in said imaging device a plurality of packets containing image data and said motion detection information; and

transmitting said packets from said imaging device to a processor-based system over a bus.

2 (Previously Presented). The method of claim 1 including transmitting said packets over a Universal Serial Bus.

Claim 3 (Canceled).

4 (Previously Presented). The method of claim 1 including replacing intensity information in said packet with said motion information.

5 (Previously Presented). The method of claim 4 including providing a bit in said packet to indicate whether motion was detected.

Claim 6 (Canceled).

7 (Previously Presented). The method of claim 1 including controlling the storage of said digital representation on a processor-based system based on whether motion was detected.

8 (Previously Presented). The method of claim 1 including replacing image data in one of said packets with said motion detection information.

9 (Currently Amended). An article comprising a medium storing instructions that, if executed, enable a digital imaging device to:

detect motion within an imaged scene and, in response to the detection of motion, generate motion detection information;

capture a digital representation using an infrared motion detector;

encode said motion detection information in said digital representation; and

transmit said digital representation from said imaging device to a processor-based system over a bus.

10 (Previously Presented). The article of claim 9 further storing instructions that, if executed, enable the digital imaging device to transmit said digital representation over a Universal Serial Bus.

11 (Previously Presented). The article of claim 9 further storing instructions that, if executed, enable the digital imaging device to encode said motion detection information in said digital representation in place of image data.

12 (Previously Presented). The article of claim 11 further storing instructions that, if executed, enable the digital imaging device to replace intensity information in said digital representation with said motion detection information.

13 (Previously Presented). The article of claim 12 further storing instructions that, if executed, enable the digital imaging device to provide a bit in said digital representation to indicate whether motion was detected.

Claims 14 and 15 (Canceled).

16 (Previously Presented). The article of claim 9 further storing instructions that, if executed, enable the digital imaging device to replace image data in one of said packets with said motion detection information.

17 (Previously Presented). A digital imaging device comprising:  
an infrared motion detector;  
an imaging element to capture image data representing an image; and  
a serial bus interface, coupled to said imaging element and said motion detector,  
said serial bus interface to form a plurality of packets containing said image data for transmission  
over a bus, serial bus interface to incorporate information about whether motion was detected by  
said infrared motion detector into said packets containing said image data.

18 (Original). The device of claim 17 wherein said serial bus interface is coupled to a  
Universal Serial Bus.

19 (Original). The device of claim 17 including a processor-based device coupled to the  
bus, said motion detector, serial bus interface and imaging element also coupled to said bus.

20 (Original). The device of claim 17 wherein said serial bus interface forms said image  
data into packets including both a payload and a header.

21 (Original). The device of claim 20 including intensity information in said packets,  
said intensity information having a least significant bit.

22 (Original). The device of claim 21 including replacing said least significant bit with a  
bit indicating whether motion was detected by said motion detector.

23 (Previously Presented). A system comprising:  
an infrared motion detector coupled to said imaging device;  
a digital imaging device, coupled to said detector, said device including a  
packetizer that converts image data captured by said imaging device into a plurality of packets  
and inserts into at least one packet data from said infrared motion detector;  
a processor-based device; and  
a bus coupling said processor-based device and said imaging device.

24 (Original). The system of claim 23 wherein said bus is a Universal Serial Bus.

25 (Original). The system of claim 23 wherein said packetizer inserts motion data received from said motion detector into packets including said image data.

26 (Original). The system of claim 25 wherein said packetizer inserts a bit indicating whether motion was detected into a packet including image data to indicate whether motion was detected in that image data.